

ROUTE ND.	SECTION		COUNTY	SHEETS	SHEET NO.	SHEET NO.14
FAP 631	(111N	-1B)	WILL	32	29	14 SHEETS
FED, ROAD DIST, NO. 7 ILLINDIS		FED. AID PROJECT-				

NO.14

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Where fy = Yield strength of lapped reinforcement bars in ksi.

A<sub>t</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
2	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension				
	1'-8''	14.7	7.9				
	2'-0''	23.0	12.3				
	2'-7''	33.1	17.4				
	3′-5′′	45.1	23.8				
	4'-6''	58.9	31.3				
	5′-9′′	75.0	39.6				
	7'-3''	95.0	50.3				
	9'-0''	117.4	61.8				

nstruction ed or Coil couplers (E)	7	Construction Line Stage II Construct Threaded or Coll Splicer Rods (E)	
	STANDAR	<u>D</u>	
Bar No. Assemblies Size Required		Location	
#4	102	Deck Overlay	
#5	14	Abut. Backwall	
		BA	R SPLICER DETAILS
		FA	AP 631 (ILL. RTE. 102)
		OVER	FORKED CREEK OVERFLOW
			SECTION 111 N-1 B
			WILL COUNTY
			STA. 821+12.20
			S.N. 099-0169